BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

e of the work: **Estimate for : Improvements to drains and Construction of Culverts Ramchandrapura and surrounding area in ward No 11 (Kuvempunagar) in yaranyapura Sub Division**

								Estimate Cost:	2500000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 142 / Item No. 19.1 / PWD SR 2016-17**	Cum							
	For drain cross road w 0695		2	90.00	0.90	0.90	145.80		
	cross road w 0602		2	70.00	0.90	0.90	113.40		
	cross road w 0606		2	70.00	0.90	0.90	113.40		
	Culvert		2	4.50	1.35	1.20	14.58		
	Basic Rate	82.00					**387.18**	199.36	**77190.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
		188.08							
	Area Weightage @ 6%	11.28							
	Total	**199.36**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12 / Item No. 4.3 / PWD SR 2016-17**	Cum							
	for drain bottom concrete cross road w 0695		2	90.00	0.90	0.15	24.30		
	cross road w 0602		2	70.00	0.80	0.15	16.80		
	cross road w 0606		2	70.00	0.80	0.15	16.80		
	Culvert		2	4.50	1.35	0.15	1.82		
	Basic Rate	4867.00					**59.72**	5159.02	**308110.00**
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	...ding and laying cement concrete using ...mm and down size granite jelly of ready ...ixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2016-17**	Cum							
a	cross road w 0695 drain bottom		2	90.00	0.90	0.15	24.30		
	cross road w 0602		2	70.00	0.80	0.15	16.80		
	cross road w 0606		2	70.00	0.80	0.15	16.80		
	Culvert		2	4.50	1.35	0.15	1.82		
	cross road w 0695 side wall		2	90.00	0.15	0.60	16.20		
	cross road w 0602		2	70.00	0.15	0.60	12.60		
	cross road w 0606		2	70.00	0.15	0.60	12.60		
	Culvert		4	4.50	0.25	0.60	2.70		
	Basic Rate	5879.00					**103.82**	6231.74	**646995.00**
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
4	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2016-17**	Tonne							
	For drain @ 60 Kg / Cum		0.06	103.82			**6.23**	59413.00	**370104.00**
	Basic Rate	56050.00							
	Area Weightage @ 6%	3363.00							
	Total	**59413.00**							
5	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2016-17**	Sqm							
	drain Side Wall		3x2	90.00		0.60	324.00		
			3x2	70.00		0.60	252.00		
			3x2	70.00		0.60	252.00		
	culvert		4x2	4.50		0.60	21.60		
	Basic Rate	293.00					**849.60**	310.58	**263869.00**
	Area Weightage @ 6%	17.58							
	Total	**310.58**							

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	ding **precast slab of 100mm thick** uding cost of all materials, labour, curing, nsportation, loading unloading, etc., complete s per the direction of engineer in charge- Data rate	Sqm							
	Drain Covering Slab		2	90.00		0.90	162.00		
			2	70.00		0.75	105.00		
			2	70.00		0.75	105.00		
							372.00	1760.00	**654720.00**
7	Providing **precast slab of 250mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate	Sqm							
	for culvert covering slab		2	4.50		1.20	10.80		
							10.80	5125.00	**55350.00**
8	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6 / PWD SR 2016-17**	Cum							
	Ramp		2	90.00	0.30	0.12	6.48		
			2	70.00	0.35	0.12	5.88		
			2	70.00	0.30	0.10	4.20		
	Basic Rate	5441.00					**16.56**	5767.46	**95509.00**
	Area Weightage @ 6%	326.46							
	Total	**5767.46**							
	Sub Total								**2471847.00**
	For Third Part QC inspection Charges @ 1%								**24718.00**
	Miscellaneous and other Charges	L/S							**3435.00**
								Total	**2500000.00**
	Rupees Twenty Five Lakh(s) Only								

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17.
3 This work included under 2015-16 POW Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Administrative Approval
Accorded For ..25.00 lakhRs.
Head of A/C.....P1771
CER NO :.....108 Dt 12.01.17

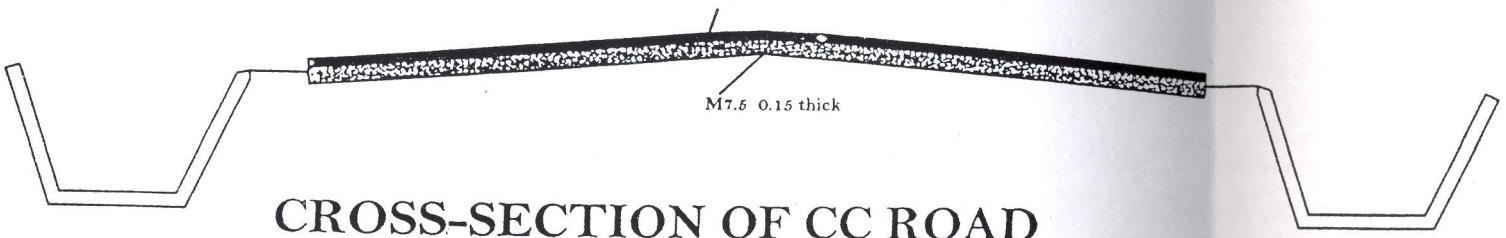
Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
12/01

TA CE (YNK)

Technical Sanction
Accorded For 25.00 lakhRs.
Head of A/C P.1771
CER NO :.....125 Dt..12/01/17

TA CE (YNK)

NAME OF WORK:-



CROSS-SECTION OF CC ROAD

INDEX

M7.5 1:4:8 0.15m Thick

M20 1:1.5:3 0.10m Thick

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER
VIDYARANYAPURA SUB DIVISION.